

# World's Fastest Aircraft

plays safe with Goodyear tires, wheels, brakes

First ship to break the sonic barrier—Bell Airraft Groperation's rocket-propelled X-1 is equipped with Goodyear tires, tubes, wheels and brakes. Designed to fly at a to speed of 1700 m.p.h. under the full 6,000-pound thrust of its tour-unit rocket engine, the X-1 has the strongest airframe ever built, Naturally wheel gear must be super-safe, too, so Goodyear All-Weather tires, Goodyear Single Diss Brakes and Goodyear magnesium-alloy wheels were specified. Because it has proved standout in dependability, safety and performance under the severest service conditions on all lyses of aircraft, Goodyear tire, wheel and brake equipment is more widely used than any other make. To consult in our engineers on any tire-wheelbrake problem, write: Goodyear, Aviation Products Division. Akron 16. Ohio:

or Los Angeles 54, California.

All Westler-T.M. The Goodyear Time & Babbur Company

GOOD YEAR
AVIATION
PRODUCTS



PROM mode to comple profitness makes a masse of minutes in an everyday operations for entire jurcely. Optionally, a result of such though studies changes would be partyl destruction of the intention term for plants; when means quagrantee. Der harry Meneyuell Creation Engineering mescapes also made for manufacture for plants; when the made for manufacture in operation made deviated to destruct.

mad for specify proception would developed the electrical. The transference becoming of the place of position or evaluate tight weight, high or resistance, how manuare theoryme and soweph. A strain-block and garden temple tipe and institution apartle terchidenes. And fourly the units out in completely respectively with a building to manuace. And fourly the units out in contrast confidence confidence by prescript using a building to manuace in the building transference in the building manuace, then not more than the place areas in the section. How areas in terms when the contrast of the contrast in the section of the place areas in the section.

In Caseda Toronto 12, Octavo.



<mark>H</mark>oneywell



Menwhyte "Rain-Lank Oshie" requires an analytication born (corrective entities flavor, least faced allow, made to meet proceedings flavor, least faced allow, made to meet proceedings flavor, and the second of the control of the con

such use to indeed to intendiment, such used to intendiment. Miscologie The Fedguar PREFerence Attending California Calain in readable to either Galvenine or Standard Stock as real lock, or specified lengths. For complete information on Miscologie Telephone (Telephone) Arcordis Calain seed for Calaing & I.



AN 609 Product Turnbuckle End

AN COS Streetura Res Red

AN 667 Streeterd Foot End

AN 666 Student Stud 1

Pine Bell

AN 862 Hell and Double Shock

Mentyla Societyc Colle Tominals

Fink—Eye

MACWHYTE COMPANY

2003 Provinced Areaux, Knowle, Wassesle Mariller A.D.M.A. red A.I.A.

Manufactures of Mecvbyte "H-Fulgue" Aircraft Cable • "Safe-Lock" Cable Termenals • Cable Amerikkes • Tis-Rock • Wire Rope • Bessied Witz Rope Shage



# FIRST CHOICE

Seasonber 20 1948

Avistion Calcular ...... 8 Briefee for Dealers ...... 60 Heurline News 11 Transport 6 

AVIATION EXECUTIVES AGREE

FOR PRECISION AIRCRAFT PARTS

equipment, combining economy with





AIRCRAFT DIVISION

Below R. Wood

Section D. 1904 Subscription Starter L. Calbon ... Protector Life Y-time Krept Hardwise Hode Adess , State Acces Alexander McCornly ..... Sent Stores McCoppel Timescreen Science Annes Annes Salari Midanes ... Balancia Scholer Stript . Les Auges Companies Associate and Editorial Officer, 550 W., 45d St., New York, St., N. Y., Photo Lancaux & 2001, National From Hole, Washington S. D. C., Photo National 2011.

Steamer's Name, Ravens, Schuler, S. Berley, Berever, H. Stey, G. Keste, M. 1988. With the New Constant B. Horne Bills, Desers B. Speciales B. Hornes Bills, Desers B. Speciales B. Hornes Bills, Desers B. Speciales B. Desers, Self-Speciales, D. S. Carragardez, D. S. Barg, S. F. Sen Francisco, J. 43 Poet Sr. Harren, S. Stewart, S. S. Carragardez, Berner, Balles, D. Balle, David, Deser, Desers, Belley, B. S. Carragardez, Desers, Belley, B. Balle, D. Balle,

Foreign News Sharom: Lendon, Faris, Barlin, Monrow, Telton, Somboy, Mai-burgos, Elio de Jaserio, Statore Alym. Generalmenta in Arbaro, Gergon, Januarya, Shanghai, Escois, Bisme, Johnsondory, and over 40 orbit office. Denter M. Karner, Student S. Fanker, William E. Steller, Salvert P. Ulin

J. G. Johnson, Diamone Nonque, B. V. Marcin, Zr. Sales Bossoper: Sales Engineeratifices; J. C. Jordeny, Sur Yarde, St. J. Stein, Philliphiphiy, V. S. Diamon, Charleson, J. J. Sale Quinty, V. G. Arberrer, Morrey; J. V. Ban-ons, Sur Transport, C. F. McEngoulde, Los Angales, Other siles offices in Physical Sci. Sect., Sci. Links, Dector and Lorden.

THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN 

AVIATION WEIK, September 28, 1948

# When Somice Counts.

# COUNT ON READING AVIATION, INC.

pletely equipped with the latest maintenames and remove facilities, it's alcothconditioned field. And it has all the evscattals of its Class 4 cetter, play on intropped business street

Cities Service Apre Grosses and existing

CITIES



Cremend Insering ... block diseased near East Year and New York . Olives: . In the South Advenue Bad Off do.

AVIATION PRODUCTS





Hara's how

THE DORNS-MANYHLE CLEFFER SEAL coordines of only two precurs conspuces resulted body and a specially designed games spring, focusy assembled book single compact unit. This climate charges on different in principle, pro-

This simple design, so different in principle, proveles sharmages not found in more contentional reveles sharmages not found in more contentional residual per content and compensates and eccessive and designate of such criticals. It allows greens bore soldrance—unce on metal case in sooil is defen high correction creations—unce Capper Solf's body is not such as metallic, and it is assert possion satisfag with effective, livey news bearing possiones in a wide range of reductional will said applications. Citype Solf see made in bath spill and suddens

reprinted are available for shifts up to 65° in dissuant. They are recommended for southing against oil, great, water, sit, grit and couldness as operating compensates up to 650° E.

For Randon Information, write for become PK-31A-Address botto-Marcollin. For 29th, New York 16, N.Y.

Johns-Manville PACKINGS & GASKETS

AVIATION WEEK, Sectoralize 20, 2000

## **NEWS DIGEST**

DOMESTIC

Price merence on the 1045 Eccope
Model E to S700 Spreng Revealer,
Md., issue \$3700 has been manement
by Emeliar Aristien, lee, elective
Soyl. 12
An Elbeit index obvious sessualitie
has persented plans to Coverner Green
proposars, a \$200,000,800 sessual ar.

CAN his instituted an incontention of TWA's compliant that Soldoni & Whiter Achies, New York, has been opening enqo and presenger flight in josein, pueels in volutions of the Col Amended Act.

Con, Lesses D, Chay proximal that he limits softly sell be expected down for women thought as not of many please and utilization of new energy new being bell. Five Fatchald CAC

come for time metals evided Just 10 of \$1,000,400. Pools for their quarter slow measured to \$1,837,549. Lockhood Assents Corp. declared dedeed of \$0 corps a time papelle Oct. I. Distribution of this measure made laby 2, becoming developed the year to \$1,400, and the description of \$perce Corp. and \$25 description that year.

1. Distribution of this amount was yet to \$1, as aparet some law yet.

Speny Cop. and its demonstration of the speny Cop. and its demonstration of the power law 1, as a spent some law yet.

Speny Cop. and its demonstration of yet and the property of the power law to the property of yet and the property of power law to the power law to the power law to the power law to \$211,000,000 at the cell of 1971, Weeking, cought Januar 27, 1994, which were law to distributed of \$1.00 per law was post of power law to power law to the power law to the power law to \$211,000,000 at the cell of 1971, which were law to \$211,000,000 at the cell of 1971, which were law to \$211,000,000 at the cell of 1971, power law to \$211,000,000 at the cell of 1971, power law to \$211,000,000 at the \$211,000,000 at the \$211,000,000 at the \$211,000,000 at \$211,000 at

FOREIGN
Bethå South Austriess Addines his
increased its schedules between Nessus
and Mazer from those weak its eight
nexts, No Sendey schedules on firm
has retice-daily schedules on firm
has retice-daily schedules on firm
Enterprise Cooperation Administra-

# INDUSTRY OBSERVER

\*Coalli McDimecl for pipe Ed Shoch with using last company? "Med. orgalecteral present lights and good for use with Cover's Arthur and the company of the company of the company of the output lines in 120. On the fact emerge in mater company on the output lines in 120. On the fact emerge in mater company on the company of the company of the 120 of the 120 organs and the the impact which also insected it his cent helsest and segme made, the company of the company dent. The proofs, their covers no company landing and the trade of the company of the comp

Figure 20 ASS 1 marry complete 1, 1750-ale to treascentistic dependence of the control of the co

A from the mended that their is allowable desired, interior systems of medical factors of a policy and their contractions, hashing believed to a profit and contracting a share made of the care in progress. All Alevandrous Registrated Tracking Consistent to Markellane a stable of Eventure received to instabilities at sale of Eventure received to instabilities at sale of Eventure received to the contraction of the contraction of

water it aloud the adulto-propagationance members

And a 15th of the company of the com

the New will be delicent shortly

access Designs DC-6 transports for ELM.

AVIATION WEEK, September 20, 2866



great companies like Lockbood, Dongles, Nurth American and others Can we save you DESIGN time?

There is no more rard to speed design taxa on a chap sken on a sondard If your problem is not specialised for a mended type, Photon will will

> Send at your realities. Our hunters depend on solving than fuser, more affectively and at last oper than you car. THE INCOME STATE OF PARTY AREA



AVIATION CALENDAR

October 1 Metal Commoders New York, 645, 845—Childid Annotation of Right Artistics O'Bolts Carley Pinas Boston, 646, 845—Sold of Asia moder Emiraces armanias morting, Britishe English, Los Angeles

America

America (14 America de Line Décindades Au
1000-line recensión, Répressor Beach

Rivis Chicago El

10-04 - Onigitational airceal: catalog,

Berjus Patrica Americadad Resign, Co-

vi 11-12-betely of Astronopic State bette production marries, Sorter Model Physical Octobed St. Annual Ariesta Arlania Confession, annual Communication, annual confession of Communication (Communication), present the Communication (Communication), annual confession Avantage.

For and her Twh City
For a 4 Sectory of Astronomy Regiment.
Peris and instrument making Mayo Mayo. Print 19 CO - American Society for Tooling Manufacts polystegin goods for and have seen them the common throat three libed, Chicago for E 19 to American for the common terminal terminal for the common for the common

har Mean Marker Carreland for the 18-18-better Landson Annual Trades Annual Hole, Circuland for the 15-18-better Annual Hole, Circuland for the 15-18 already for the 15-18 alre

Material sensions manifely manifely. Policies of the Period State of the State of t

Man 12-Indian of Asiansoline Bestmann metropolitan accion, facin and label-catte meeting. Engineering Sudding 1962, New York City. Feb. 9-COAO Occupions Division, More-

do these gireraft have in common?



Keep ancreas from They are all appropred with hearted whiching flams removed, have given success designed the sensor. and streamd companies for their many experiments. . . A latter or

CHESSEL HETEMATIVE ANNUAL . CHESSES COMMERCIAN COMPANIONS TRIPDS SOM

AIRCRAFT and AUTOMOTIVE HEATERS

AVIATION WEEK, September 20, 2945

# Manufacturers Warned to Step Up Output USAF gets release of funds for 500 more

planes; even greater production needed. By Babert Botz the worself volume felt increased

means for easter production left alones in addition to the 2201 now on

\*Top Pretagon Officials proutely cacics in staffary plane delivery school #Plans to horiz resolution on the Form is noga promotes on the Region B-47, a maint syntoteen currently the feature USAF · Personney decembers of the facul

from Defense Secuciory Formital for afforcing of \$100,000,000 to addressed 75- +181,000,000 will have

\* Thirtees B.50C face corner hand

of 33 B-10Cs are now on order. Week

added EMC on their reference rengancer \$36,000,000 of USAF ren or postetype 1'8 99C operpod with Port & Winters VDT expres in recetal contract for the XB 55, a loss

This new precedent is necessary by

feel that the Proplet much select a of the stocast accurance reterior and cast comby that the equipment at colourd is assumed for narrowel do.

Now Plan-New still has append



# Succulent Supper ... Ex Route See Timber, many arritmen scores their

Piece insult of goods or men re time are personals ... and Sperry congrepordies of weather or sombility.... cores .... as they do their names on Generalor\* for smooth, level field ...

more efficiently and more possoro-Mennyhele, Sperry resourch and There and other wall-known engineering explose new, better many

SPERRY GYROSCOPE COMPANY

DIVISION OF THE SPERRY CORPORATION . GREAT NECK, N. S. NEW YORK - OLDINOLAND - NEW COLLEGES - COS AND DUES - SHE FRANCISCO - BEATTLE

# From High-Speed Bombers to High-Speed Transports MADTIN LEADS THE WAY INTO THE FUTURE!



Ment "of the error " sauch by Au 2. That it will be deficult to will the Adven ubables one of Course Pre'exercity budget estauges for faget with the USAF getting above

sent week with final action due shout

during \$1.937.000.000 affection for Navy Blimp Contract

A New Jews restart for the launt Specifications call for a metrol sterlain high Ay 87 ft Josephinders amounts of 14 officers and men, with additional ► Far Cas Bar -- Cas revolue would plus purchases, to desilve electric sensity 100,000 on fit gas capacity more that he had experienced no single-ment than the Name's Al. Market Mar. relevant sensitions He del Januario. believed the layest nemerical authle-

(-56 f deg F). No Mark For X-1-The performance n no couth for the 700 meh level receiving North American F-86A pleas is undergoing for the Micetry al Supply Deny began he die al 43,000 It over Window, 10 miles went of London and began his polical at Pressure Welstonst - Derry neer a for restingue field orthog erforther. Any was lovel finite. He did not on

resolut an imported Much remotive

when the speed of sound is in the

British DH-108 Hits Sonic Speed II S observers envolvaine difference between craft's dive performance and level flight mark of F-86A.

New Controls-Derry's Sould report DH 108 was assembled from a DH

that the Aight would have on effect on



No. of Subtree Muscher's Philips and

HAWKEEN Noncommed Schies, N. 7/66, New content of the EAF P. 1869.

# Britain Reveals New Plane Types Aircraft manufacturers' annual exhibition shows 40 models for the first time, including latest jet fighter.

war (1958) words topled a sout FARNBOROUGH, England - Enslarges of things to come, where on sa straumic realing in the cultilets this The sources the ninth sures or New Turbolit-The Aron Salls Rayer's new anal-flow turbmet engine \* Allet Aldrico-AVRO's Tudor VIII, powered by four Balls Revee get as added boost from the show ghend of hot very 124 million total. \* let Fighten-The sen 3.45 and

the classest flying exhibition. Sunday Rac's SRA3 flying-book on new. It showed a managemblish men that belied its slightly become ► Tailon lets - Acrotopop Winterach's

► Tuchingon Developments – Values

Syong hosts: The Novel and Theores were flown as fixed of the growd at the colefet to

► Other Types-Among other typer · Handley Page Herman IV, reedium of a tocycle broden arm

AA, UAL Follow Suit followed American's lend to characting the 11 period pressure on DC-6 other certain by scienting a 5 percent decrease on manditude exclusive of

AVEATION WICEK, Separator 25, 1960

Monday and Wednesday.









looks to a pilet. The introncer pend and ar speed del Barton new has new grouping has the Zeu Rooks Sedantar of clush solicates, busk and turn metroon the two year works with the IEX owns more and readed service for Zero Brades makes industry on the left and the land. Diet unt unit Zee Render Industry to us prictic for the Zero Reader on the top new country while firms under large with Second on he student about most confiden-New Flight Indicator Introduced Sperry develops Zero Reader to make instrument flying circular and ILS anaroaches more accurate

A new Siebe automost dodrzed to contropert field between no new own un pht. Syste modes restricted courts pletting production engineering on the P. Strady for Poulorfice-The Zero by Spery for about cash years. Re . Talk Pilot-Austice venitor from centry a development model was flown conventional flight automated in that week place Bets on a tour during imperiation by the wice in tells the

Big difference between the Zero Civil Acronagies Administration officer up or down rather than telling has the industry during the report period

substitut a bracker selector a sectely \* Amplifer Renn-The switch provides by are retting the alteracter to the dethe ILS coaling at nepubly to we the

Flicks tests with the Zeus Reader indicate that menual ILS supreschen or reductors It transfiles "council on Sporty emphasizes that the Zora adraded to smooth the sob of using

Blade Explosion

Blasts Wind Tunnel Steploons failure of eac er reter blates decreased all 32 blades of the Buildings and house within a reduce

carbquake when the Males found discust our housed to loss of blades. the tennel told Assessme West that

unter trappel at Buffelo, N. Y., may be AVIATION WEEK, Scatember 20, 1945 CHECK THESE NAVION FEATURES











The Thoroughly Proven Post-War Plane Ryan Navion Relia an Ruan syan amonastical company, 400 sinderen pred, ean direc 19, caux.

#### Strike Ends Bosing workers return.

but jurisdictional dispute may be in offing.

Striver workers of the Association liber traubles rany nat be easted. While the AMII washers were same the creat a neary to AME, an affine of the independent lehanational Asso-New Union-Denel I. Tribu, goald

es. And the new group is out to

orgrano al Bacing heavy worker, in Mechanic hursed back to work on Sopt 13 after being out 140 days. The turn Others IAM warn over out at write benefits, more than \$2,000,000. tune, had other setrated or improved defection of about one-third of AMU's But seetles must may be justidie bond trooble at Boong as the Years steet keed and the AMU gover to he took office Jane 2, Dolar Wilson Mechanism returned to the A. F. of L." ◆Terms — Boxing aunounced it would mbase all \$200 employes who love rehealted openintenent applications.

most 39 if his brieded "helivering" stoken, if is constitute stell to a willing to autotion a layer face cetil

The obstant rature to work with a 15 century been were recovered which the

# Airport Ratings

of the AOPA "show avenge" and "superior" salego. The higher noting, "superior", showed an memor from 64 at the last ottor to 128 m of July The raisings are based on detailed coerts fied by univoled AOPA mem. I B. Hartmett, Ir. AOPA reneal cattaget, reports that the survey but scious of read and had server service. out of their way to you at streotty where service is good. As indiscrine

# Revised CAA Soon

a meeting of the administrators of the One plan repeated under counders-tion called for reflection in the number of CAA regions, which would entire countrible shifting of personnel and second Warkington top personnel.

Key to the Rented ofour for CAA. names for the frequent interchange

washing Commission. He has ex-

will be in closer treath with the order.

Marssire effects explora-

# End in Sight?

tory talks between Port Authority and airlines. New York's version of the Hardeld When it is and there are all there ments over lending fees, lennes, nights and provinger, speed with native real The Part Authority, pay meeting

Anothe with delice treatmentations of emploritary conferences, is still not fully merce commissioner who was experienced by Mayor O'Dwyer to ellect a meet Is a letter to the Mayor, Manager and that, or his spenge, the network the attention. He was reference to an refere clear that the Part Authority was sense for select "beyond go What the sidings change is this The

After these mostles of study street The Post Astheaty countries The leases were signed there seem age. They cable to 30 days' notice. If the Au thanty recents on this one, abservers think the niffers will consider second

Stratocruisers for Airlines

provide true outificate he CAS this Arbert Seiten Northwest Addings



# SIGN OF QUALITY AT **OVER 1,000 II.S. AIRPORTS**





# The Flying Red Horse!

You'll fed this world foregoe sign as more aspects Unmed Serres, responsive, surragically facased six Why does the assuring indexes have such confidence Grahme Grading, the YCC Process for communicati

and labritumes. It promoted the Bloodry Procuss of

SERVES EVERY RRANCH OF AMERICA'S AIR INDUSTRYS DOCORDAVACEUR DE CORPURE INC., LAS AFRANCE MATRICES PERSONNE COMPANY, EUGENE PERSONNE CONCORDOS

LM-Dates someth balting is now

Only the fully controllable beam of L-M-BARTOW

approach and runway lighting permits the very high intensity of

180,000

beam candlepower



Write for this brochure

Brings them in all over the world



# LINE MATERIAL Airport Lighting

# PRODUCTION

Military Orders Boon to Lockheed First-half net profit runs to more than \$5 million; procorrement hillings comprise 71% of total sales.

also holding TWA notes under the



AT GUIDED MISSILE SYMPOSIUM \*Carrot Rates - Money contracts North 100 gooled monds sedienter viited. Motors, Signal Cope, Engineering Enters. posses at Borny Nighter Co. property. Dekrost, California Indicate of Technol. Recent and Development South Science environme, Col. C. H. Smitht, White Production of Shortcar Stars at our were closed because of the considerated no. Such Proving Grounds, Col. F. F. Hell

has of scaled moving possest force of soni, Hallman to Force fine, and Col-

# Key Employment in Aircraft Centers

	EMPLOYME	NT			
Arm	Ari	lodustry			
	July 1944	Inc. 1945	Jan 2765		
Reidgeport, Conn			39,400		
	37,900		28,000		
Relialo, N. Y.		2,900	110,000		
	65,500	10,000	270,000		
	63,300	11,350	38,400		
Nesark, N. J.	25,000	7,400	226,160		
		7,000	245,160		
	42,200	10,600	92,700		
Detroit, Mich	355,000	5,100	495,000		
		0	\$5,000		
		3,400	23,000		
Circonnity, Olivo	43,000		63,000		
			200,660		
	25,000		27,668		
	82,000	3,000	493,000		
Eccupylic 2nd			22,569		
	32,000	6,491	46,200		
South Bord, Red	20,000		31,000		
Atlents, Co.	25,600		14,000		
Kress City, Kinn Me.	46,300		93,000		
Wighth, Karn	45,700	5,100	5,900		
St. Leux, Mo	17,600	3,400	123,500		
	22,700		19,000		
Teles, Okla	22,000		10,000		
Dollas, Tex		1,900	15,000		
Feet Worth, Tex.		12,000	3,600		
Les Augles, Calif	219,100	66,300	157,700		

Extracter heard on U.S. Knocksmoot Server couplers, and area reports Ages after employed 13,000 or mean agont maken in 1999.

Other key indexture audiode course, changesh, potentions, propery and febricated.

In oght blue supply some the providing to USES, led will you required in a given suca, the local This is the new of the 11 % Eggiernest Service, which would A sense of 29 await control

is the Cent Like and Middle each not the separate consistenced in the same general health, USES destries which compute with ab-napris, because affinitions of the early for labor. The key industries are of housing and other com- als, and all monitorers and humans. Shortages will not be sealous, See table for compensors.

#### Lightplanes Show Decline in Exports

Exports of personal planes deepped on look from what they had been in and males valued at \$460.12% experted by twelve companies in late. That in

Totals for the first seven security of

next to According Other countries Promot, 6; India, 5; Colomba, 4,

# Ryan Stens Up Schedule Stern Account red Co., Sex Diese.

following strike difficulties that out str

Soark Plags Ordered South than-235,550 of females

For Drives of General Maters by As Maturel Commed beginning Amounting to people \$1 million the



The dependable combination is the person arriver for The sensels make at constant find free and contact



Securitaria Salan Salan (Salain Ann., New York 17 " Securitar State in Armelon State in Indiana , Managari AVIATION WEEK, Sentender 20, 1862



high-speed wheels vital to the super lets!

Month on intercom ... early total to sevenesse seven · Today these unusual laboratory facilities . . . on Askensowsk engineer adjusts the turnado speed the engineering "know-how"... and the mora-facturing skills of Allkescarch are graliable to you whatever your field may be. Most after hour the sectoring test goes on, because AiBesourch engineers invite your toughest problems, involving high-speed wheels and rotors. Specialized experience is also available in counting compact burbless and compressed, Picecering the design and manufacture of refree or transport with historopy of rutary; air, any sted guation ourbones, heat workungers, and sependuargers and other satematic controls. Write: Afflessarth Manufacturing Company

So with in this equipment new being installed on a

2005, of the event A Pleasure's relact to devested to section.

HE GARRETT CORPORAT

AVIATION WEEK, Sectionles 20, 2941

# ENGINEERING









# Stress-Corrosion Tests Evaluate Allovs

off conturing NiGHI,O, solution At right is the test said for holding absent after operators or arrive absorption.

Resistance of aluminum structural materials studied in accelerated checks and marine-atmosphere exposure Standards to determine their shifter to and supped by Diach L. Loren and Dier 3.111 T. R.H.I-T. and the artificially

AYLATION WEEK, Seanualer 20, 1948

► Bus of Comparison-Introduced to

## SAFE LUBRICATION BY SINCLAIR

· · · · enhances Gu AND SOUTHERN AIRLINES ...BY CHICAGO

Motor City to Mordi Gree is now just 6 hours, 15 minutes

Sving time via Chicago and Southern Airlines Detroit New Origona conte

maintenance . . . the type of equipment spices which has distinguished C & S for over 14 years. And . . . in all that

time . . . C & S expines have been jubricated for sefety end efficiency with fomeus Sixclair Aircreft Oil. All over the C & S Gulf to Great Lakes system, the story is the same . . . fest, dependeble flying . . . enhanced by Sincloir Aircreft Oil, symbol of flying dependability.



# SINCLAIR AIRCRAFT OIL Symbol of Flying Dependability

Communical editions, release filters, and already manufacturers have found to a mostly SUNCTAIN AURORANT ON Nichby descendedle in metabology four exercises exhaulting reducing maintenance cost, and sefeguarding valuable equipment. The high recent is which engineers of Chicago and Southern Aidines hold SMCLAIR AMECRAPI CG searchs for Itself. For sets, now already envises inherication, take your con-

SINCLAIR REFINING COMPANY - AVIATION SALES - 230 FIFTH AVENUE, NEW YORK CITY

just & hours, 15 minutes

Authors, is a southern

sed entertalement.

\*Allow Properties -With the solvent of commercial fact 2/6 Y after resolvent a single or an alloward changes (\$300 Y and



REQUIREMENTS

P. Insurenius, Outdoor Setups-Spec-

# Cylinder Head Temperature Measuring Systems



















Get This Valuable

GUIDE

rad, marketing authors shotted to hold, of the chord expection the eads of the

The specimens were then placed in the species of which the distance from One of the deficulture on stressing parted from dad graps receiving deficient

error in broads strength of sheet 3

Sounder of other allows that were tested, with the occupies of \$331-7.

In scanni, it is chosel, it was so-

# Logar, H L, and Hesong, H., Strees-Corrugion Tests on High

#### Several NRS 41, 69 (2940) B51993 Propeller Improved

New constructors to featured in larger number of Instrumentation to two

craft Steels booklet . . . and don't forget to call us for prompt different of your another alloy and staledow requirements ENGERGY EXPENSES A SON, INC. PLAN. No. York, Larry, Philosophys. Ortoir Cincinnets Circulard Petrologia, Bulleto, Channe, Hrivestine, St. Lean,

Aircraft Specifications, Data,

Aircraft Steel Stocks

Here's a new 40 page book peebed with valenble information for

on Arge. Navy and Government strends such specification. In

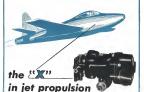
own the chromary condition, from and also the emprelent

sembed specification for ANQQ-5, ANS and AMS arrorate quality medic. As an additional help, this convenient paids includes

conflex afloy and stripless steel in Ryemon wachs.

RYERSON STEEL





Of source there is no letter "Y" to she wonder engines, a very hig and fremoment "X" was the design of a fact purps for this service. This was as tough a problem as any ever tackled by ages, why . . .

- 1. The reason must define a based of one
- 15 tieres the pressure used by American 3. It must have nearly the same service Me as low occurre pumps. This was

the real sticker . since easiline has so lubricoting qualities, the way of internal parts increased much more moid-

Petco not only developed a high pressure fact pump that set all requirements but west a step further in producing a pump with two purposes sections ... one for the main first nonters and the other for the accordary testers which goes upo operation enformatically

The success of Peaco's solution to the "X" on jet proposition is extended by the fact that today every Aracitoso production let muse uses a

# On the North American Four Jet Bomber



Most of the best known modern please are now to constrong in aggreent description policy relach, over the near, has now the mercures domainds of your Many responses improvements and improvious in sigplace design, convenience and operation have been reade

PAINTS - GLASS - CHEMICALS - BRUSHES TTSBURGH PLATE

NEW AIR CRAFT





British appolishing, now undercoine its taxi tests.

Torrae trait are now tilene place . Now! Wise-Chef sewart as the

Mara goe and tail wheel setted

uses variable-incidence wine for shorter takeoff runs.

The cost's server order, is 23,790



The Beechers!! Becames is another of the and accurate testing of PEATHER-WEIGHT of

Light, strong and compact because their thin,







Testing in the largest, resst modern wind

WEIGHT performance under actual fiving







# Anther Feder stock broke Donak four state "Late." built by Standardek Arm Indonés. Europe's Progress In Lightplanes

Design details of postwar personal aircraft abroad offer noteworthy features meriting study by our own industry.

Assumes Winn was not be for connectency of Assumpte Propelly Department of Kappen Co., Inc., parts of American protein protein planes. As manager. The avalent which follows on the saccreding page





When a specific type at Champion Spork Plus is occurred four men research, also work already with minutely entered

USE CHAMPIONS AND FLY WITH CONFIDENCE AVIATION WEEK, Security 25, 1941 Europe's Lightplanes

Mary scooper and rolltical hands

Model of Erector, Wiston & Stort "Solether," Streeghoot, 250 kg. emits



was, I careet see how this is possible too, for done business writes the

in the husted production and higher starting block godles of political preparation, the way, netrophile leading year with the the nexter of the burdens becomes and

bute with the American sunfact. Price-

The four protester slop is reported included Plenglas. The politic position

capants' cobin is on the form of a ta-

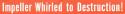
investment and development of tode, two Crees engines recepted forward, belond the course is a mine which was



We
KNOW

I a read of the product of







"Whirl Pit" is typical of Alcoa Facilities that are adding to the sum of Hight-Motal Knowledge

As the recising part trade to replace the respectating part to absent engines and accounts, the sportful of career denger of supplies and market parts for high-speed operation is assuming increasing importance.

Assent It continues are weakness with

speeds of 30,000 e.g.m. and apared or inspecial partie, confidency prophend speeds approximg 12,000 feet per second or parts of all types.

What is the factor of safety in such acres 7th amoor course has seen with

densection erets out's subst above here, is which speeds up in \$1,000 r.gam. have been recorded, or with continued mass well above the required speed of the payspeed in assessed. Extra-conting of mulparts for experimental rans sold in the designar's knowledge. Such note, and the desilities for them,

contrists a part of Alina service to an judicity to which we have here a major supplur store the days of the first Assistant supplus. Aircraft and econocianafactures are unjet to make fail usof the Flight-Need Knowledge, and the facilities for obstacting in Accessive Contract or Assister, 1835 Gelf Bilg., Patabagh, II, Patron-brane Solts offices.





AVIATION WEEK, Separator 20, 2845



Econolistic designed for aircraft high pressure use, this is the first 3,000 P.S.I. Hese Line that has passed 100,000 impulses at 4500 F.S.J. Hose lives and fittings are available in 15" and \$6.5 standard take sizes. Fetimes regulat of

three pieces, each realiserable. Assembly withget special tools. No tightening or adjustment after assembly. Fittings can be removed from have and re-used ever 100 times.

Assessed for horner perferencess, evalute opens and environ-

AEROQUIP CORPORATION

NO SANDAR MOS. RAGOSOPHILAS & DELL'AL JUES DE, 1915 MORE, ITALI & 1021 MORRADITATION PAR SURBANICAL.

11/17 DELATE, SC. ROPERFEED & M. CARROLLTS Y MATERIAL STREET SHEET SCHOOL CARROL.

AVLATION WIEK, September 20, 2845

In the three place version with 150

effect lower cost. The assemble from

AVEATION WITH Sevender to 1966

NOW ... SAY GOOD-BY TO THE OLD "CUT and TRY"

and balance limits during air craft t

challen est a politica el gos, evigh weight limit is new as out at done or testing with a head people The new GRANCO Temperature Component on Motor recommendedly ster And deer it with second and The Medal TE GRANCO will comsecure for temperature fluctuations from zero to 220 degrees E.

or Emilds havens a regard of \$6002 to 2009 on flairet of camposites, it mate meterity offered for concessor and promont back to 60'F.

LASTING, ACCURATE PERFORMANCE

and contained area air probaments the new GRANCO II State has been until

Oakland & California

A NEW VALVE

Whatsher specialized valve doinged for the world's most motion sirenal; the recordpressor. This hot air performs vital functions. is not sizerad; such as wine do-scene, feel targle pressurgation, wasdabadd defrostraz, caber electrocally or manually, as being marafied on virtually off ist-propelled sixtraft new under construction by leading manufacturers

Off the draftene board comes another

Then to control the hot air further, smaller diameter allow the pilot to deleast the wind-Famous for supposit twolves embodyane advenced engagement techniques and design, Whittaler mentaces their posters as the control of laure volume are flow as burb tem-

peratures, Specify Whittalor Bot Arr Valves -the rewest addition to the Whittaker line

# BRIEF OPERATING SPECIFICATIONS

6 500° F.



CONTROL HOT AIR IN IET AIRCRAFT

# FOR A NEW SERVICE



A useful avide to better results Here is convenied form we have product, should obtain expert obviously

15 types of U-S-S Stoinless Steel to choose from

cheracteristics when or why used ......... Parties Proposed on to state to



AVIATION WEEK, September 20, 2940

Now Tokker-In Assetsdays. The

After use, Assal Day Cheminal Bire Estinguished can be reclaimed for the upon a personaling one country property of the post o





of comparable see In addition . . . Asset Fire Entragashers provide a Par hannels resolven parallels and other flore-· For first in five wheatward section and equipment.



nustenitic





Monne-Station's Model 571.

web their Wheeler, and Benday in Do of this template is equipped with Leven-M. Beckeg, was president and do. P. France-de France, the strendt what According manufacturers, rech at Some of their personne designs ra-

gong better then 140 mah. The con- reciercal four-place expert serion with

by the northytes which was consistently with 141 kg. Reseald entire, and str.

carence rescuented a begit active do le Newl Designation and French free

on the site with the Communical

mountain range in Switzerland, the

contribution to avariou. "FIYING RUNWAYS" MAKE THEIR OWN LANDING STRIPS





AND THE SECRET IS SCINFLEX!

The spouge, made of the feest materials, care

a Molecus-point, Procure light a Racks Date a Single-pitte house a Vitable-proof a Light Weight a High Are Exchange a Bare Associated and Discountry a loss park high are of other Consume

AVIATION WEEK, September 20, 1945

Piletes Assent Weeks, Ltd., Stem. or

Best Deal Far Long Wearing, Better Looking Uniforms REEVES ARMY TWILL



antiforms. The high conside opposits of this ten-madely mores becar employee specience, greate comfort.

Reves Aree Twill compring walk mare of yet shed steads received withlings . . . its resolut shreakage in loss than 100. Remember - over 90 million yasts at

PERM COTTON TO CUTTED Twell - Resweicing Geberalise - Gleegeule Poplin Massa Herroghore - Byod Cloth - Warsins Tsell Megetain Cloth - Pires Ki as Brandeleth - Channel Gebeuchne - Rocycesel - Parklyn Paper WARE OF THE COTTON

REEVES BROTHERS, INC. S4 WORTH STREET NEW YORK IS N Y

REPRESENTATION OF Africa - Driver - Driver - Charge - Duline - Leadingsto - Philadelphia - President, Congres - St. Laws - Movined - Transe

# NEW AVIATION PRODUCTS

New Templerer Process electro-constitue deces trendt is woodword by Kellewen Instrangest Dr., Scause D Co., 50-05





One can apported that disentents

Blind Hole Breach

Haumer Magnifies Accurate spotting and penchant of



Mooring Kit by Ast Associates, Teterborn, N. I.

For Touch Tiro-Removal

lateraled to replace scopers and absence or repeat bounders mention A is No 1 cands, with touck dury below wellow promary of \$500.

Bender warmphose combination mg joto and strendt radio floor

Stamps Metal able stamping federe sentenced by able ricel sinde blocks, pormatting

negag from 1 x 2 to 4 x 10 m







DUPLICATE ORIGINAL PERFORMANCE REPLACE WITH LORD DYNAFOCALS



e law weight-carried design and stores enginels · Moximum refery-oil stock parts are 193% Marron

flowed, Metal parts interlock for positive safety a feer installation ... worth and between and de-

Write for a copy of Land Service Bulletin containing val-

LORD MANUFACTURING COMPANY - ERIE, PA. Philodelphia - Chicago - Providence - Burbank





















gallos of fati, but maintenance and new economy



advancements in high-temperature jet propulsion



The West'sphease Astrofat. For greater State safery of suppresse's alanes . . . We made our has cinic or the total one coldificate that decelered a food come and alterade, or manager the place Equipment is the bear, will would be pro-





Leader in Aviation



developments sports. A few of these, which

Wardachease will continue to explore new and beaut methods of solving the problems













# HARRISON Supercharger Intercooler

Exceptionally light, Completing dependable, Designed to accomplish a specific cooling job with maximum efficiency That's another way of savina this widely-used aluminum inter-



# FINANCIAL

# Airline Problem in RFC's Lap

Analysis points to Convress as basic key to ultimate solution of carriers' fenercial difficulties

mediate requirements but also for str.

standar of the selfue and their reactal

effective revisions would regress Conoup Air Polity Commonon made an educative economics of the industry's raphfews. While some of its final

Asserting Hiller French word over readdustry's basic predition and problems. the RFC can hope to accomulate har

of author contribution remodately

A most healt remen to the ex-Plea Ace First-To the leaded extent subsets was too man RFC thereupon

Western Air Lance to the gate rewise

1947, this carrier, by pitulging various to previous obligations. Last left, an additional count of \$2.3 million use made available to facilities figuress a Sect of Convent. Then for, pair 6640. 500 of the addressed early has been P. Fapperet Fredores-Next of the Produce-Refer the RFC can ad



Are was found with genring problems beyond the to visit, in order to make an effective coordination to Perito, Western sechnicians, burked by the knowledge existed in over a bull concert operation of our corn. practices and design by such pengrams. They have Let us demonstrate what we can do so bely you solve

year mechanical power transmission problems. Write on your company belowlessed for your only of the new

Good Gears for over 50 years WESTERN CENT WORKS, South & Washington



AVIATION WICE, Sentender 20, 1945

With a favorable outlook for over

Solar Year Good. Menasco Surolus Ilo

all DC-4 Operators \*Solar manifold replacements now available through... **Douglas** non-year month consisted explanations, order from the Beligias Account Company to fit the force bank the heteropies controlled that heteropy are put the fourth from a dealer than the best part of the fourth of the f unque her creening. The RTS Wards whereth taken commakes per reaction. I see U. to Accomplexees a Protection at State Accomplete C. 54's with Solar he sensetion to their server being 12 contracting remove excessions. for the selected distance of Solar's expension re-C.A.A. Appropried

2020 Committee Sun, WW, Washington E. S. C. + 207 E. Salverium Well, Security Wills, Calif.

SOLAR II Aircraft Company



# SALES & SERVICE

# Flying Farmers Plan Air Research Convention discusses organization to study problems

of serial seeding, post and weed control

By Alexander Victoria term renors the farmers, govern and COLUMBINATion for a subsent ceffer the speach and builting

harnt in confected and overlooming

rough' future influence as seration. the plant as a parce of agreement you. Brest a student plot increase. However,



PLACEE AWARDED REP. MILLER \$10. Willow J. Miller (R. Cines), who to right up. May Al Williams Golf Oil fiche to server CI field tension, or bute robot excepted comiles fire Miller

college in the Midwest.

Donas, Olds., was projected mension and Best Harman, Verson Center, Phone GI Transpe-World of the

copter from Weight Field, and Ast Re-

# Close Maitland Field

BRIEFING FOR DEALERS & DISTRIBUTORS ARCRAFT SHOW-Never thing to a representative aboving of pew 1946 coronal arcost that we lave seen this year was the collection et alienes na exhibit at Don Scott Field, Obse State Université airsort at Colombus, during the recent Flying Formers meeting. The show differed from most of its kind, in that the people looking the appliance

FOURPLACER COMPARISON-Times on display rachated virtu

GRADUATION PROCESS-A greens of graduating from the law (4-places). He finds pleaty of one for both of them. He receifly traded es his Citata \$40 two places to how the 170. Forest Watson, the Figure Farmers no forms pecificult, has graduated from the Accurace be used to

ERCOUPE TESTIMONIAL-Passence of \$5-year-old Start Nation at model and agency the new 1945 applicat. No. 5000 of which fee had

rie decirion lendar ritius me materia customore for the new fearbal creaved leading goes, and they showed keen reterest in demonstrations of the revealing gues at Columber. Art Chapman, Goodyne demonstration ories, ted to that Crosse's first order for 100 sets of the

FOUR-BLADER DEMONSTRATION-A finite description of a

ENCORPE CROSS COUNTRY A Sold from Washington, D. C. do the within another realization of how pleasant such small plane cross--ALEXANDER MISURELY





# **NEW DANLY CLUTCH INCREASES PRESS** PRODUCTION BY **CUTTING DOWNTIME**

## Main Mass of Clutch Rotates with Flywheel

Vanie different from conventional prem charches. chuck members "rucked up" by the flywheel in

the parts stagged by the fresheel upon ensure ment reduces the load on the moree and drive

more con municipal clarch annuments failed to make replacement of the original along necessary

High Velocity Ventilation Further, the chack housing is designed to prowith the automatic budain labracating asserts provident flored od to all drive shaft members. sources have trouble-fron service. Icas down-

days and every rendertion at lower costs. Get More Fosts Today on Donly's

Cost-Saving Features



Coll on Duels engineers for automore in denri tion. For specific information, send drusts about



5 Cost-Soving Features of DANIY PRESSES

Sayely All-Grant Weided France. All waldeness along referred before modifying

Extra Long, Bronge-Lined Adjustable Sites and Provider Northland Side - Asses

Preses William Pin Design - Provide practices fitting of component parts, neutron description

DANLY MACHINE SPECIALTIES, INC. THE SPATE STRD AVENUE, CHICAGO IS. ILLINOIS



# AIR TRANSPORT

# Airlines Backstop Berlin Airlift Nameked contribution heaviest thus far as carriers fly priority supplies and personnel to Germany.

The U. S. or tumpert radiatry. Francoism for Laux-had the more But confestal and recetificated ►Lift Espands - This racement his continued and expreded. More recently

regular cassess ducing a cross, together committee will work with MATS to develop assistmenting contracts

the contribution of the more fireble

softery material sets Femalest last

The companyial carrier' first selections carrier C-Ste made for faith from

LANDING AIDS CHIEF

torin Cdf. Trenocou &r Loro or. costh named Dr. Minnes A Gatell upon the fields, Transcense's contact

to Veneracie Fiethts are made van

\* Fedir Supply Link-American Overaddition to special come flights made crotes into Britis on a receipt school-fe fart-Berks ser envider in Annual

Overses but month assessed 1.966. \*Syminator. Pulse-The order was rounderer facility each week between Chartend Bettels Plants - Berrin consumerval authors also have entered ter section of British European Agrees stations are adequate to perform the cluded two Divite Byor bests, a Liberty Seamaton decided the usuar hy offeriny excutor Sal not be Flore

overy meterics where the empficial tole schooled finks without editor

with a straction recovery to recover? on the Down! At that time, the Arr . Dog-Was Probad-The culture cares bound treffic in solders' desendants

Townstor lines are also bayers four trophics with CAB regulators, which creature: Eights. Scabouad & Western, cercuity method in difficulties with

►U. S. Been Served-Slick last been frucht between sine bests. They are sea, Dayton, O., Traker, Oktobersa Forfold-Scoon, Fredald, Cable March, Riverside, Cief., McCleline,

to the European theater. Other careo ►Work to Continue-Lifting of the the Military Air Transport Service after the augustions of the Midday Air

NEW BRITISH PERDEBLINER

dothed tractust, a pay bone dence, has two 520 km. Also Leaster record rinted to feededoor, chapter operators and With cath processor, two care and 400 lis most for right, to travery nature street. Interest on he abouted models to one Aided by exercisary relief in helding and 2000 lb, of curs, inchesy fitting on held from the under hat mother Manneys; in. Other particulated venious of the emotivation of the printing Print on Print mobile a disputation cognitive entral, even though the Act Perce has sampleted as lettle over a year. A high wing, smallel, a second-sourced model for our been extremely placed with their sill motel monophore, the Prince has note for very companies, a test contact assume, as stild persones, such of whom his a here technique and a soldier trace. First poswindow. By sewowing the today, two most be \$250 with float or the undergoing



"I LIKE WY ourtgears to have the some





to their passaid level "



Freight Route Fight Enters Last Rounds

F Recessor Seen ATA, on a new lotal whether there is not already too much

the affection corriers, probed in its best to CAB that the certificated par

Mr. Cupo, Isc., Rolling-Meurylete The Board replied that now such in-

discrewide sature as Air Cityo, Roc.

## Crash Report CAB report blunes EAL

crackup on failure to maintain safe altitude. scribed subrament procedure and to near Occos PHE, Md., but Los 13, ac-

of the field Bad the costs been from F Paur Westher - Westher conditions

socident were poor, orthags ranging trees 100 to 2000 in Vasibility was as

mura of 1500 P hone's rader scopes were unable to



The Tree 12A Vist Seldentined Excelving Equipment ((illustrated) ented with the Tipe 15A. The Tope 12 YHT Communication edition The Tope 16 offs VIII



Be A&& Type IF or A&L Type

14 is the compution commence

#### NOW. Buy American Up-to-the-minute data on modern PROPELLER THEORY This new look shows you key to moment

then by a street angled of the major constraint them of the property of the street of

bation on propellers

II S. streenft one flores on 87% of all foreign lines enteide Rossin 0-mg 71 percent of their scheduled

THEORY OF PROPELLERS by THEODORE THEODORESIN, Ph. O. P. Services Increme - Aided by their Time President, the Seefasts of Probability Asses - Assertion healt planes, Europea specialors

164 pages - 6x2--64 frages - 58 aborts | In all air carriers (IV E.002-000) adopt

A PERSONAL PROPERTY AND ADDRESS OF THE PARTY AND INCLUMES APPLICATIONS TO DESIGN ing a basely leader, ther black country as an easily, this look or will have appropriate to the form

This street house when you The Property State Comment of the County of

States Colores This injections from a factor to the factor of the factor

41 Union Street Monthester, New Hompshire

PLYMOOD INTERIOR

SANDWICK ROADS FLORING

STREETS IT VISC CLATTER SUCCES

KELLER PRODUCTS, INC.

Merch, 1946, foreign lines outside of Rousis deer 3,037,000, or 34 percent, conferent U. S. suscentional line.

and St. movers in April 1948. treat can be promoted for almost en-

asternal conceptors expended from \$61. March, 1946, to 1,472,000 to April 1947, and 1,770,000 to April 1948 ► Route Mileser Espends - Underly

in \$5,000, and former college from and \$63 in the spring of 1946. Of this coar's total, 177 are foreign curriers and 40 are U.S. certificated arrives.

work in April, 1945, were TWA I Untril As Lors 1,867,618. Sam 169.179, and Capital Airfrey

Lambia Dances Box

lone M. Lanks, forcer charmen of the Circl Agrangation Best and one

tree deen of the Hanard Law School,

# On-Time Pays

regist Darity list, TWA's domestic

Airlines step up efforts to fiv on schedule, Remitt moderill. montalized to tackle the problem of

of Percel's own any loop within 10 Darior the cost vers, on-time pertouls, with most of the remaining delete now attributable to factors be-► NWA Estud Discontinued-Northrer has established a permanent

persod law year Between Apr 1 and

For Airline Traffic

posters in repensived at aspect

PAA to Mose In-August Arbur. The surfacets at empowered to meet an





analysis it will use to tolly cover for operators for us, and kilo Z. Alian. at

State-coder date. Deceasing the dream sitted souther of connects for str. The or Res. Gen Coll Breedt, subtter recourt coughter at half he Cortes Weight



Manufactured from high twenthe stainless steel, Bey-Hey Dorring is concellarable, and influentable, pressure and vacuum tight and highly resistant to fargue. Reoffer may be heat massalle in makinle plants for corer

Available in more up to 10" L.D. Rigid, some

individually or combined in continuous users



Please at Naymond Style and Suck Falls, Please In Consider Consider Metal Here Company, Limited, Brompton, Owtorio Comparative Transportation Safety Record Pausager Fatalities and Rate of Passenger Fatalities new 100,000,000 Passenger Miles

	1941	2942	1943	1944	2745	2546	1947
Euroger extrooklin					12,990		15,300
and topicals						15,400	
	40	2.7	2.7	2.9	2.9	2.5	2.1
					120	140	
	.24	- 23	.22	22	17	11	21 75
Reliced per trans-			262	243	145	115	
	14	17	34	-26	.16	11	1.6
air tumport planes.	33	55		48	76	75	299
	131	3.71	1 16	212	2.23	1.24	3.23
ar transport phoes	- 2		10	17	17	40	78
Rete	109		3.51	4.83	3.67	1.54	1.06

# High Safety Record Seen for 1948

Eight-month showing by donestic carriers well under 1947 fatality record; year may be one of best.

U.S. as comes completed the first leaflet convenue and seven management eight months of 1945 with high hopes Despite the crish of a Northwest Actions Marten 2-0-2 or Winson, Minn . this year rain short 2.1 fabilities are 100 mg PAnislests Lated - Draws the first

ANTATION STEEL Section to 1849.

Freight Forwarders Win 5-year Tenure Denote strenutes exposition from

\* Asthority Criedrel-Tile Board an-

You over it so yourself

Obstruction

are laffs





#### Let SOL-A-NUT take over! When you re lookage for a self-lock-

SOLA-NUT. The public feature man, pro-bounds, network superchargers, ser engines and the like. Sounds, pee-street strimben-yeard connot conside if dismont Responds weld, 506-A-NUT meen U.S.

Afaire-Ret WEDGES, AIRLOCS the Superior Sold We sufrom: nounce from resufernees seek-

AND DESCRIPTION OF TAXABLE PARTIES.

nelses. The Board found at to be in the rubble reterest that we expens or But Rielway Experts was ordered pretfered earners. CAR referred to

council to handle and process referable

Honolulu Route Contested South-Hospitals must extrinue at aute the Scattle-Horolch mute at a

Mexican Troubles

Finles to uga a pact despite combe permitted to activate roates to Mon-







We got a new Gulfflarels, you see Non-

so there before we leave best? With all that homepower, the Nerry they language what over well do?

been, it a time for you to start sending lot's remarker 5 "Frees"... and Cour-And don't fixed out the new Gulf profe Avietoe -- Serges D to horsessally











## Can you name all three ?

They're Booms-built by the petnerr Carrier of greadents and prove

tra Cippes and their outer they foblased total for the Army's Are Trees - nedered by on of the world's leading

Senior is building limits of Engineerings for Stock beyond building sinfluen LACTION OFFSIDE MICHEL - BETTE BY UNIX - BYTHIS DURING ARMYS CHIPMENES

ROFING AVIATION WEEK, Sentender 28, 1946

crance. This two-deck lower later contines the regardens, dependabl-

1930 and "doubted" in 1942, vertrally specimenton Statescratters have been

AIRPLANES

AVIATION WIEK, Seatember 20, 2048

Fear Still Prevents Many From Flying

POther Research Monte season for tern, 11 percent, employment by undependable schadeles because of

Alaska Airlines Enjoined

**FOR** 

SALE

DOLIGIAS -

DC-4

ines from engaging in minimum arsutted by the Circl Accounter Berry CAR SCHEDULE

of Farks Air Lines. Obtaind 97123

Qu. 4—House on proast's Bread parties of Monach, Air Lines confidence regimetion (Becom 1884)

a foregreen with the will proceed to



lock . . . a leach with revotes

Berry For nearly a half contary special byleing drawn weaklers.





(25012G) Engines. . In good condition, having

accordance with hisbert stend. · Archible for Gillery willia

Consists information, together with a very observes material and

# SHORTLINES

nary will immune commoner from from but the highly competitive New York-

► Cheurouke Airweys-Has berns DC-1 ► Colontal-Else been outered by CAS

P Fan American Aircross-Teacher with other custom is aucumour service be to Branches Some on Oat 15 with

tion to an executar corner research to ►TWA - Wil magazite all sleeper

and instrument ratios. Bothy wirder ► Useed-Is considered as interchange

SEARCHLIGHT SECTION : DOUBWONT : LIND ON BETALE EMPLOYMENT : "OPPORTUNITIES" CARGELAND - SATES T000 A1 700 And the Party State of part one benefits as Paster of pullsyle for help

@ SEARCHLIGHT SECTION @

# AIRCRAFT **ENGINEERS**

Your chance for reon the B.M. world's loop. est burder, and other

heavy sincraft, being built Terror Districts Occupanities NOW for experi-

Aerodonamirists **Engineering Designers** Engineering Draftsmen

ing and experience to: CONSOLIDATED VILLTEE AIRCRAFT CORPORATION Fort Worth, Texas

CHIEF PILOT WANTED

Doubled position even for chief price

en Lockbood Lofester susretire sin-

Write, litting seplifications, to: Engineering Manager NORTHROP AIRCRAFT INC. Haytheres, Celifernie DESIGN ENGINEERS AND

FOR SALE

WANTED

SALES REPRESENTATIVES

For the most equation and shad-

east, lowp, arbiblished, highly soluti

BON SEAS AND COM WHITE BY WAR STORY WHEN THE WAR STORY WHEN THE REAL PROPERTY OF THE PARTY OF TH

AIR CRAFT

**ENGINEERS** 

for Was and Fuscione Design

China Wise

**AFRODYNAMICISTS** We have excelent for Enricem with

PRECISERED ARCREST COMPANY 4221 Leonis Rivel AVIATION WEEK, Sentender 20, 1965

# AMERICAN AIRI INES INC

FOR SALE . Donatos OC.3 Atrologa Parts Accessores and Ground Engel-· Wresto G.182 (CSGE) Foreste

Parts, Accessories and Composi-· PAW E.1830.92 Social Parts

Accessores and Components. . .... · Dearles DC-d Avelone Ports . PAW 4,2000 13 feetes Parts Accessories and Composests freque of which are later changeable with 8-2000-7-5-11

Dans inventories ore evaluable for jespector of our worshause of America. L. L. New York Taken, Okinhenn and Peri Work. Terms and advanced FOR those pourse in demands abypassed on TO ALL BEDVICES FOR OCCUPANCES TO ALL BEDVICES FOR SET ATTENTION OF THE ATTENTION OF THE SET OF STORING AND THE SE

FOR SALE DDIIGIAS C.474 2273 Total Aldress Name Regions less than 50 house alors now All makes compromis months producted AIR CORPORATION OF MIAMI

P. O. Dru 262 Minni Judan, Flo. SEARCHLIGHT -to bely you sell what you so See Every Dynamic West

"Turrey Stancus array Franch

POR CHARRESTATE SALE THE REPERCRAFTS ... BORD AS IDOSSTARS No beautiful fielding to

@ SEARCHLIGHT SECTION @

HEAVY AIRCRAFT SCALES Stationing for of J spring. A 2 year industries are specify. Spr. double trans plantamen and Bry I be closely select least Children
 Accept 10 100 vyboling S Enstean, Making St., Carleson, Co.

IMMEDIATE PURCHASE

Three DC-3 Passenger Aircraft with P.S. W 1830-92 Facines 28 assurance conversion professed

ALSO HAVE FOR SALE 3 og Baeing 247-D with large lat of airplane and engine spares.

REQUIRED

for

ATRIOTAS NACIONALES DE COLOMBIA...AVIANCA

Atte: Puchasing Manager.

& W PARTS FOR SALE \$25,000.000 INVENTORY Priced 35% off Bout Cost AIR-PRATSon TED BONDER AVE. DEPT. AM OTERDALE I CALIFORNIA

SCHOOLS

# an Announcement of importance to operators requiring the Pratt & Whitney R-1830-92 engine



exchange podecy 1 The Steam's Deen R-1830-92 Concessors in new enables for \$1665 with the earlings return to SupposeDates of a rested two set B-1830-92, complete

with earhorstor, magneton and sporton horsester. Freight charges for the return of this engine will be post by Steward-Dana.

On October 1st, 1948, the cash price of the Stoward-Baris B-1830-92 Conversion will drop one bandred dollars. This reduction in price will be based on the return to us at our expense of a run-out R-1830-92 engine.

Final still this mean type or an operator? This polity will shall the pains of the Securid Davie in Billoy Contension by on buttled skillers every time you purchase after Corbor'd 1, 1962. This will be particularly important to you if you operations are conside the Corto States in an area where dulte restin are afficient to arrange. This will mean that the possibilities for intension are consider the Corto States in an area where dulte restin are afficient to arrange. This will mean that the to mixing or of your quick out on the control of the corto strategies of your regular or good, for an office or the control of the corto strategies of your confers. At the restlit produce of a nature, you can be considered to the control of the corto strategies of your confers. At the restlit produce of a nature, you can be considered to the control of the contr

les in direct context vidy use a measured data program? Pecsares eve vida to the sidence context vidy use a the seasor of pour dight spectrosis on that our merchandring policy of performing a service sure be dissinguished from the context of the personal personal context of the personal personal context of shadder the entire personal result of melling personal vidas personal context of the experience and our terminal periods which we find a personal clearly in the personal result of the first year in contexts in the start personal results and unsign which will make it who end sensible for you to personal will, and a lost and unsign which will make it who end sensible for you to personal will, and a lost the engine, then we become place and this changes regumen as these presents and



The Street & Davis R 1830/92 Commiss, completely overheaded, warranted for 100-bours, sus-was, prepared for long-time storage and packaged for shipment, is now

invendiniely orcifable from each or WILLIS AIR SERVICE, INC., Tecesboro Air Terminal, New Jessey; WESTCOAST AIRCRAFT, Boeing Field, South-Washington and STEWARD-DAVIS, 13501 South Western, Gardena, California.

## STRICTLY PERSONAL

PENTAGON INTERVIEW-We deeped by Scortery Samugan's office for on hour pet him in the makin for considerance the conveys model Consens who said west

TARTHE EXPLOSION-Asserted Wire's cloter get up and around Yes red for I short Engenering Edits Fold McLereck hep-in a TH-SC Wife, Scholer Range, "Sell set of people below after a role at the TPROC two days upo. At the steet, still "While we set those mechanics stopped off freeling photo to make curtage to demanbed resolved. Once off the nurvey, I noticed that Fish Salmon, one pilet, was weeping

"In a few periods whetever was wrong-maybe shribg in the accomplant of up a by man.

REPRESENTED MORTH EATHON-May Cook at one of the country's most remain-Then pared soons or too 35 Aug 5 less her the \$15 "sloudy philips messly at the speed of sound," and adds mank to sepay by today on that "the only explain, so for If average intounted, our fane story was vestfed spready by unusersalable someway

STRUCTUS CORN-Flot for latter less miles on the designant. Bit \$60 of \$100 STRECTE CONV.—First for intriact look mixed an the department, Bit Eay of Bit discolors where low the America STORY OF THE WEEK-Tale mayone reports the easy of the week. "Bill Weight,

ON THE OF "CAN YOU TELL WHICH PENDER HAS THE TONIF

# WHAT'S NEW

"Rodin and Instrument Yorks, Instrectors Mergel," spread through Age.

Accessed of Testang, A Quiz Sys-

pend by Cherics A. Zweng for the Pun American Ninegation System, 12021 "Asing Informed Meistrope" by Earl F. Werner, foreign technical admin, U. S. Air Fiere, Perhished by McGrow-Hill Book Co., 1sc, 150 W (2nd St., New York, N. Y., 666-pages, "Akonst Engines," by Col Redon

# Macmillon Co., 60 Fifth Are., New New Reference Books

"Eddors Reference Book on Por Bryune Works of Seternational Nicial Co., Inc. Molts-Phot depro-"The Ad of the Asistina Engine"

"NATA Mr Tuda," a lot of 432 equipped to offer special passenges or cargo chaster service. All hold carried revised ther 11, 1946 and markets thems for Comes even for the troop

"Mohtdernan-Steek, Ivers. one of the front institute put earlief up like a new prominent for World passed a right lists," 307 pages. No make those CL. ADVERTISERS IN THIS ISSUE

AVIATION WEEK, SEPTEMBER 28, 1945

Marica Produce Co., Inc., Assert, Ross Marrow, Inc.

Peer Project Co. April - Teller & Sente & Son, Ser.

Float Soi Co. C Graphy & Co.

Barris Breben, Jac.

Principle Plate Char Co. Agency - September & October

hen Assessmind Co.

Spory Courses Online Book Co., Inc.

Grid Care France Com-

Federa Con Toda

Annual Car Arrest Rada Carp. Course Co. of Assessed

B. E. Almost Gr., Jon., Sept. Str., Co., Sept., Spirit March St., Co.

Charges Spot Proj Co. . Marco Se Marco, Se Change Metal Deer Orto. Calvel Montaging Co.
Agents—June Thomas Clining Co. Surface String Co. Agreemy States O'Decord Adv., Sec. Briss, Inc., Thorne A., Sancra, The Schools House Co.

Granaus About Exposeing Cop. Gell Od Carponeiro.

Sedana Cop Works 

X-lier Profess, Inc. 

STREET, ST. OF MARK

direcoft Machanies prefer UTICA TOOLS Aircraft washanisa laser to be consin

... that's why they profer UTICA. TOOLS ... for dependently, and more real milesge!









# EDITORIAL

# Air Fares Bounce Off the Ceiling

he transport flors resolved their yeak between Sept. I and DC-6. Unded Air Lines associated it was dropping the orbit those on Stat. 15 That was the day America's new feeds So the politic press it will also pale from American's propolant setter "family feet plus". The is obvessely at expenserat. On his a taket at the create rate and other members of the imme Other mentionet developments, already published, are Yan

structure, and the Committee rightly finds that development of a house quality service for a broom fine in fundamental to the action on the fac it is where burners ben't

hour boar 4dt that IATA ascenden which complex to the third and reduces do. Affirmed reades of across, through down auticiits services, or well as services effecting feature and constant, ... Assures West poid out crame it pales in the school they have first with James Statements 15; efficult solves

FAA reports the resonance background of the new Panto The encourse this one mount total necessary toffic, inded-We believed in the need for stabilizate a round six tempore. bed standard of entry. We show did has those Fast, we tood to move at what we is seed, to count, we survives me compension.

"Security five deligns, we discovered, was within the predictions." "At this moint, orbital on our expenses; with the SISP recent tile expenses wire in the sampler of 1947, we had to take a peoble. We had to arrange that become of the rate we would care more emperors are there than on the board service, i.e., a 10 neget increase in ked factor. Wherea, per service service will been appealed selling the new type of notic. We also "At the ment we are most confident. We are hereful that

Bendix Products BUILDERS OF BASICALLY BETTER LANDING GEAR EQUIPMENT

Plan With BENDIX

Save Space and Weight Vest I be off up a floare street when you plan your

fring Bendix as standard leading gear equipwe so Benefix Products



To the second

\* GRUMMAN ALBATROSS. Largest Grumman Amphibian, for U.S. Air Force rescue and cargo transport.

\* GRUMMAN PANTHER. The Navy's newest jet fighter, designed and powered for highest performance.

Designers and Builders

of the world's

finest

AIRCRAFT

FOR DEFENSE

AND COMMERCE



\* GRUMMAN MALLARD. One of the world's most versatile Amphibians for personal and special Navy use.



GRUMMAN AIRCRAFT ENGINEERING CORPORATION, Bethpage, Long Island, New York

Contractors To The Armed Services